Course title	Mobility Challenges in Urban Logistics	ECTS code	14.03.5365
		ECTS credits	5
		max. students	20

Name of unit administrating study	KRT	Field of study	Economics/MSG**	Field of specialisation	NONE;

Teaching staff	Aleksander Jagiełło, Ph.D. ; Katarzyna Hebel, Associate Professor ; Krzysztof Grzelec, Associate Professor ; Dariusz Tłoczyński, Associate Professor

Number of hours

Lectures	30	Classes	0	Tutorials	0	Laboratory	0	Seminars	0	Language classes	0

Forma aktywności		Year&Type of studies*	3 SS1,
Hours with the participation of the academic teacher (including office hours, exams, others):	38	Semester:	5,
Hours without the participation of the academic teacher (student's self-study, homeworks):	38	Type of course:	optional
Total number of hours:	76	Language of instruction:	English

Teaching form	in-class learning
Teaching methods	Lectures including multimodal presentations, Discussion, questioning, Collaborating, group activities, Case studies, E-learning, Didactic games,

Prerequisites (required courses and introductory requirements)

Required courses	Transport Economics Economics (Basic)
Introductory requirements	Posiadanie podstawowej wiedzy z zakresu transportu

Assessment method, forms and criteria

Assessment method	Course completion (graded)
Assessment criteria	100-90% bardzo dobry 89-80% dobry plus 79-70% dobry 69-60% dostateczny plus 59-50% dostateczny 49-0% niedostateczny

Course objectives

Przekazanie wiedzy na temat mobilności w logistyce miejskiej

Learning outcomes

Course contents

1.City as a complex system

1.1.Process of urban development

1.2.Challenges of urban development

1.3.The concept of smart city

2.Urban logistics as a solution toward challenges

2.1.Urban logistics system

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2.2.Urban goods mobility

2.3.Urban passenger mobility

3.Planning Sustainable Urban Logistics

3.1.The concept of sustainable urban logistics

3.2.The city and the freight

3.3.Urban logistics infrastructure

4.Planning Sustainable Urban Mobility

4.1.Sustainable urban mobility policy

4.2.Sustainable Urban Mobility Plans (SUMP) as a local policy tool

4.3.Evaluation of the selected SUMPs

5.Non-motorised transport as an element of sustainable urban mobility

5.1.The concept of walkability

5.2.Cycling

5.3.Planning integrated infrastructure for active mobility

6.Transport Demand Management as an element of sustainable urban mobility

6.1.The concept of TDM

6.2.Selected issues of the TDM

6.3.Selected case studies of the TDM

7.Public transport as an element of sustainable mobility

7.1.Public transport as a subsystem of the modern city

7.2.Challenges facing public transport

7.3.Modern concepts of public transport

8.Organisation and management of public transport in cities

8.1.Models of public transport organization

8.2.Managerial aspects of public transport in cities

8.3.Evaluation of selected case studies of management in public transport

9.Supply of the public transport

9.1.Infrastructure of the public transport

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9.2.Rolling stock

9.3.Electrification of the public transport

10.Demand for the public transport

10.1.Features of demand in public transport

10.2.Research of the demand in public transport

10.3.Transport behaviour and preferences

11.Costs and pricing policy in public transport

11.1.Costs of public transport

11.2.Pricing policy in public transport

11.3.Free public transport - really for free?

12.Airport - gateway to the city

12.1.Airport catchment area

12.2.Direct and indirect connections

12.3.Time slot allocation

13.Airports links as an element of urban & regional transport system

13.1.Rail airports link

13.2.Bus airports link

13.3.Car parking operators at airports

14.Port cities

14.1.Relations between port and city

14.2.Evolution of ports

14.3.Transformation of post-harbor space

Recommended reading lists

B. Tundrys. Logistyka miejska, Difin,

M. Browne, J. Holgiun-Veras, J. Woxenius, S. Behrends, G. Giuliano, Urban Logistics: Management, Policy and Innovation in a Rapidly Changing Environment, 2018

K. Grzelec, K. Hebel, O. Wyszomirski, Zarządzanie zbiorowym transportem miejskim w warunkach polityki zrównoważonej mobilności, Wyd. UG, 2020

Air transport and development policies, Ed. A. Graham, N. Adler, H.M. Niemeier, O. Betancor and other, Reaultledge

D. Tłoczyński, A. Hoszman, P. Zagrajek, Transport lotniczy w warunkach globalnej mobilnosci, Wyd. UG, 2021

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Contact	aleksander.jagiello@ug.edu.pl, katarzyna.hebel@ug.edu.pl, krzysztof.grzelec@ug.edu.pl, dariusz.tloczynski@ug.edu.pl,

* SS1- undergraduate studies * SS2 - graduate studies * SDang - doctoral studies
** MSG - International Economic Relations

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